Standard Operating Procedure (SoP) for Case investigation and Contact tracing of Monkeypox

Date: 2079/05/16



Epidemiology and Disease Control Division

Department of Health Services

Ministry of Health Population, Nepal



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Background

Since the beginning of January 2022, over 49,000 laboratory confirmed cases of Monkeypox has been detected from globally. Monkeypox (MPX) is a viral zoonotic disease that belongs to the Orthopoxvirus genus of the Poxviridae family. Human disease was first identified in 1970 in a 9-month-old boy in the Democratic Republic of the Congo and since then most cases have been reported across Central and West Africa.

The incubation period of monkeypox is usually 6 to 13 days following exposure but can range from 5 to 21 days. The primary infection is from animals to humans, and secondary infection is human to human and characterized by fever and rash. The mode of transmission is via contact with monkey pox vesicles on the skin, and droplet is secondary because of skin scales being inhaled. If a patient seeking care is suspected to have monkeypox, infection prevention and control personnel should be notified immediately.

A multi-country outbreak of monkeypox in humans has been reported in several regions that are not endemic for monkeypox virus. At present, the outbreak is linked to international travel, but community-based spread has also been noted in some areas.

Known sign and symptoms:

Mucocutaneous manifestations

Fever

Headache

Fatigue/lethargy

Myalgia

Arthralgia

Back pain

Lymphadenopathy: Axillary, cervical, and Inguinal

Other presentation:

Conjunctivitis

Rectal pain or pain on defecation Sore throat Penile swelling Bleeding/discharge per rectum Dysuria

Further, the sudden and unexpected appearance of monkeypox simultaneously in several countries without direct immediate travel history to areas that are endemic to monkeypox suggests that there may have been undetected transmission for several weeks or longer. Similarly understanding of the transmission dimension is ongoing, and with only one laboratory infrastructure (NPHL) for lab testing of Monkeypox in country, case investigation and contact tracing remain the critical to understanding and containment the disease at its earliest.

This guidance serves to provide interim recommendations for the surveillance, case investigation and contact tracing for human monkeypox in the context of the current multi-country outbreak of Monkeypox

Rationale for Case investigation and contact tracing

Monkeypox currently is being detected in nonendemic countries and is rapidly spreading across the globe. Although no cases have been detected in Nepal it is necessary to conduct surveillance along with rapid identification of suspect/probable cases to contain the outbreak.



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Given that limited availability of vaccines and therapeutics for monkeypox, early detection and isolation with close follow-up of contacts are the methods to prevent onward transmission of the monkeypox disease. A single confirmed case of Monkeypox is considered as an outbreak. In the current context, as soon as a suspected case is identified, contact identification and contact tracing should be initiated. The case should be immediately reported to national IHR focal point.

Objective

The Key objective for case investigation and contact tracing would be to:

- 1. To rapidly identify the cases in order to initiate diagnostics and timely clinical care
- 2. To isolate cases to prevent further transmission
- 3. To initiate detail case investigation and contact tracing at the earliest.
- 4. To systematically follow up the identified contacts

Process for Case investigation and contact tracing

The mechanism for surveillance will be based on the experience and structure of Government of Nepal.

The following steps will be carried out to effectively manage & contain the monkeypox outbreak.

- A. Identification of suspected/probable cases of monkeypox
- B. Case Investigation
- C. Identification of contacts and contact tracing
- D. Contact monitoring and reporting

A. Identification of suspected/probable cases of monkeypox

- 1. Identification of suspected/probable cases will be based on the case definition mentioned below.
- 2. At the community level, any cases suspected of monkeypox is to be referred to the designated focal person (Dermatologist/Clinician) in the province (Ref Annexure 2 and 5)
- 3. The suspected cases referred from the community will be reverified by the clinical doctors at the hospital.
- 4. If the case definition is met, the individual will be categorized as a suspect case for monkeypox
- 5. Isolation of the case will be done at the hospital isolation and Home with constant monitoring
- 6. The clinician/dermatologist will do **detailed case investigation** of the case as per the form provided (Ref Annexure 7).
- 7. Communication to the respective local level, provincial level and EDCD about the suspected case through case reporting form (CRF) (Ref Annexure 6).
- All efforts should be made to avoid unnecessary stigmatization of individuals and communities potentially affected by monkeypox.







Case Definition on Monkeypox

A. Suspected case:

i) A person who is a contact of a probable or confirmed monkeypox case in the 21 days before the onset of signs or symptoms, and who presents with any of the following: acute onset of fever (>38.5°C), headache, myalgia (muscle pain/body aches), back pain, profound weakness or fatigue.

OR

ii) A person presenting since 01 January 2022 with an unexplained acute skin rash, mucosal lesions or lymphadenopathy (swollen lymph nodes). The skin rash may include single or multiple lesions in the anogenital region or elsewhere on the body. Mucosal lesions may include single or multiple oral, conjunctival, urethral, penile, vaginal, or ano-rectal lesions. Ano-rectal lesions can also manifest as ano-rectal inflammation (proctitis), pain and/or bleeding.

AND

For which the following common causes of acute rash do not fully explain the clinical picture: Hand Foot and Mouth Diseases, varicella zoster, herpes zoster, measles, herpes simplex, bacterial skin infections, disseminated gonococcus infection, primary or secondary syphilis, chancroid, lymphogranuloma venereum, granuloma inguinale, molluscum contagiosum, allergic reaction (e.g., to plants); any other locally relevant common causes of papular or vesicular rash.

N.B. It is not necessary to obtain negative laboratory results for listed common causes of rash illness in order to classify a case as suspected. Further, if suspicion of monkeypox infection is high due to either history and/or clinical presentation or possible exposure to a case, the identification of an alternate pathogen which causes rash illness should not preclude testing for MPXV, as co-infections have been identified

B. Probable case:

A person presenting with an unexplained acute skin rash, mucosal lesions or lymphadenopathy (swollen lymph nodes). The skin rash may include single or multiple lesions in the ano-genital region or elsewhere on the body. Mucosal lesions may include single or multiple oral, conjunctival, urethral, penile, vaginal, or ano-rectal lesions. Anorectal lesions can also manifest as ano-rectal inflammation (proctitis), pain and/or bleeding

AND

One or more of the following:

- has an epidemiological link to a probable or confirmed case of monkeypox in the 21 days before symptom onset
- Identifies as gay, bisexual or other man who has sex with men
- has had multiple sexual partners in the 21 days before symptom onset

C. Confirmed case:

A person with laboratory confirmed monkeypox virus infection by detection of unique sequences of viral DNA by real-time **polymerase chain reaction (PCR)** and/or **sequencing**.

Clinical sample must be clearly identified as "swab from the skin lesion/vesicle and or crust". Specimens collected for MPXV investigation should be refrigerated (2 to 8°C) within one hour of collection and dispatch the sample to lab (nearest PPHL** or NPHL***) as soon as possible.

** Sample received by PPHL should be again dispatched to NPHL as soon as possible

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B. Case Investigation:

Case investigation of suspected/ probable/ confirmed case should be initiated within 24 hrs. The case investigation should consist of:

- 1) Clinical examination of the patient using appropriate infection prevention and control measures by the treating doctor in ward
- 2) Identification of possible source of infection and the presence of similar illness in the patient community and contact
- 3) Safe collection and dispatch of specimen for monkeypox laboratory confirmation.
- 4). The case investigation will be carried out as per the form circulated from the EDCD (Red Annexure 7).
- 5) Case management as per necessary protocol developed by DoHS.

C. Identification of contact and contact tracing:

As soon as the cases are identified, contact identification and contact tracing should be initiated. Contact identification and contact tracing will be done by the **RRT/Contact Tracing team** formed in the local Municipalities per the guideline. Contact identification, interview, and counselling for adequate quarantine measures/ contact follow-up should be completed in 48 hours of case identification and should reported to EDCD surveillance within 24 hours following field activities.

Definition of contact:

contact is defined as a person who has had one or more of the following exposures with a probable or confirmed case of monkeypox, in the period beginning with the onset of the source case's first symptoms and ending when all scabs have fallen off.

- direct skin-to-skin physical contact (such as touching, hugging, kissing, intimate or sexual contact)
- contact with contaminated materials such as clothing or bedding, including materials dislodged from bedding or surfaces during handling of laundry or cleaning of contaminated rooms
- prolonged face-to-face respiratory exposure in proximity without PPE
- respiratory exposure (i.e., possible inhalation of) or eye mucosal exposure to lesion materials (e.g., scabs/crusts) from an infected person
- The above definition also applies to health workers potentially exposed in the absence of proper use of appropriate personal protective equipment (PPE)

N.B. There could be existing networks of MSM community. Such networks could be important partners in tracing and monitoring contacts, considering the current epidemic patterns of the multi-country monkeypox outbreak.

D. Contact monitoring and reporting

Contact monitoring should be done at least daily for the onset of sign/symptoms from the last contact with a suspect/probable case. The "symptom diary" given in the case investigation form (Annexure) can be used for this purpose. Asymptomatic contacts can continue routine daily activities such as going to work and attending school (i.e., no quarantine is necessary), but should remain close to home for the duration of surveillance. Contact monitoring will be done till 21 days remotely.





Contact monitoring will be done through either mechanism:

- 1. Active monitoring: Monitoring via EDCD call center
- 2. Passive monitoring: Contact will daily record the symptoms along with temperature and share with the Health Coordinator of respected local municipality. Local municipality will in turn notify EDCD shall there be any signs/symptoms observed
- 3. Direct (in-person) monitoring: By local municipality team Health Coordinator/RRT/ District RRT as necessary.

Monitoring and evaluation

Indicators for monitoring the quality of monkeypox contact tracing include:

The monitoring should be done weekly and reported.

- 1. Proportion of cases with complete demographic information
- 2. Proportion of suspected cases with laboratory testing performed.
- 3. Proportion of cases with complete clinical and risk factor information.
- 4. Proportion of probable and confirmed cases with identified contacts.
- 5. Number of contacts per probable and confirmed case.
- 6. Proportion of contacts with complete follow-up information.
- 7. Proportion of contacts that turned out to be cases

Reporting to EDCD

Daily update of confirmed, probable and suspected cases will be reported to EDCD, Surveillance and Research section and Epidemic and Outbreak Management Section in reporting template or Case Reporting Form (CRF) approved by the EDCD (Attached in Annex). Respective provinces, districts and local municipality health authority will be copied during reporting.

Also, any event notifying suspected cases of Monkeypox can be reported to EDCD call center 1115. Please report CRF in *info@edcd.gov.np*, *ewarsnepal@gmail.com* along with any additional information of cases

Probable and confirmed cases of MONKEYPOX should be reported immediately to WHO through National Focal Points- International Health Regulations (NFP-IHR).

Laboratory testing: (sample collection protocol)

All suspected and probable case of Monkeypox needs to be sent to lab for testing for Monkeypox.

1. Sample collection: Collect samples from all suspected cases.

2. Equipment needed:

*ensure availability of following

- Sterile swab sticks
- Sterile needle 'or' scalpel blade
- Alcohol swabs
- Disposable syringes
- Tourniquet
- EDTA tube



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- VTM (for throat swab)
- Sterile Cryovial/dry (universal) for crust collection
- · Biohazard bag to discard waste
- Sharps container
- 3. **PPE: Wear PPE in accordance with contact and droplet precautions [Aprons, gloves, face mask (N-95), goggles]
- 4. Labelling: Proper labelling of the tube before the collecting the sample.
- 5. Collect Samples from suspected cases as per the mentioned.

a) Day 1-4 (Febrile stage without rash)

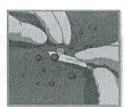
- Collect Nasopharyngeal/Oropharyngeal sample (2 specimens using two different swabs) swabs in VTM and store at 2 to 8 °C.
- Collect 4-5 ml of blood in plain vacutainer tubes, leave at room temperature for 30-60 minutes for blood to clot and serum separation. Then, store at 2 to 8 °C.

b) Week 2-4 (Rash phase)

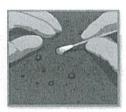
• Collect *lesion base scrapings* with sterile dry swab (2 specimen one from each lesion using 2 different swabs) in sterile tube and store at 2 to 8 °C.



Sanitize lesions



Remove lesion roof



Brush lesion base

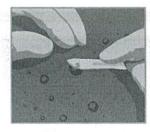


Put swab in container

• Collect *lesion roof or crust* (2 specimen one from each lesion) in sterile dry cryovials 'or' sterile urine culture bottle and store at 2 to 8 °C.



Sanitize lesions



Remove crusts



Put crust in container

 Also, collect Nasopharyngeal/Oropharyngeal sample (2 specimens using two different swabs) swabs in VTM and store at 2 to 8 °C

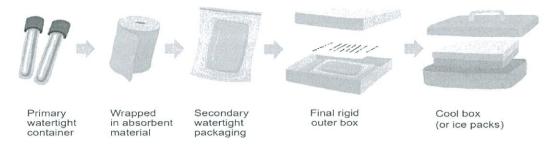
6. Storage and transportation

• Ensure the collected samples in tube is properly labelled, seal with parafilm 'or' adhesive tapes to avoid leakage and keep at 2 to 8 °C as soon as they are collected until shipped to NPHL, Teku.





- For shipping, wrap the collected samples with absorbent tissue/cotton and place into the secondary container (ziplock) and place it in the tertiary container
- Line the inside of specimen transport container with a frozen ice pack and transport at 2 to 8 °C.
- Send a copy of the laboratory form (NOT inside the specimen transport container to avoid contamination with the samples) along with the samples (Appendix 1).



(Note: Contact team of National Public Health Laboratory (NPHL), Teku as soon as hospital/laboratory collects sample from the suspected case. Inform EDCD and NPHL of the shipment of specimens to the NPHL by phone and email)

Tel - Email -

Clinical sample must be clearly identified as "swab from the skin lesion/vesicle and or crust". Specimens collected for MPXV investigation should be refrigerated (2 to 8°C) within one hour of collection and dispatch the sample to lab (nearest PPHL** or NPHL***) as soon as possible.

- ** Sample received by PPHL should be again dispatched to NPHL as soon as possible
- ***Currently testing facility available at National Public Health Laboratory (NPHL)







Collect from every patient:

- A) Collect 2 lesion specimens per patient. Each specimen should be from a separate lesion
- B) Specimens are a swab of vesicular/pustular fluid and/or a crust
- C) Collect 10mls of venous blood

A) For swab collection:

- 1) Assemble the recommended equipment for swab specimen collection (alcohol swab, swab, scalpel, needle, PPE).
- 2) Label swab containers with patient name, sex, date of sample collection, age, EPID number.
- 3) Perform hand hygiene. Don appropriate PPE.
- 4) Sanitise lesion with an alcohol wipe, allow to dry.
- 5) Use a disposable scalpel (or a sterile 26 Gauge needle) to open, and remove, the top of the vesicle or pustule.
 - Remove swab stick from sterile pouch and vigorously swab the bottom of the lesion with the swab.
- 7) The liquid from lesion must be visible on the swab.
- 8) Place the swab back into the sterile pouch and close.
- 9) Discard the scalpel or needle into sharps container.
- 10) Place swabs in a ziplock bag

B) For Crust/swab collection

- 1) Assemble the recommended equipment for crust specimen collection (alcohol swab, cryovial tube, needle, PPE).
- 2) Label 2 cryovial vials with patient name, sex, date of sample collection, age, EPID number.
- 3) Perform hand hygiene. Don appropriate PPE.
- 4) Sanitise lesion with an alcohol wipe, allow to dry.
- 5) Use the needle to loosen and lift the crust.
- 6) Once removed, place crust into a sterile cryovial tube.
- 7) Select a second crust from a different location on the body and repeat steps 3-5. Place specimen into labelled tube.
- 8) Discard the scalpel or needle into sharps container.
- 9) Add the tubes into the ziplock bag.

- Place ziplock bags into a vaccine carrier with frozen ice packs
- Place document into a separate ziplock bag and do not mix with samples during transportation
- · Remove PPE and discard into biohazard bag
- Perform hand hygiene
- Transport to the National Public Health Laboratory (NPHL, Kathmandu within 24 hours at 2°C to 8°C using NPHL (COVID-19) transport guidelines
- · Cold chain should be maintained during transportation to NPHL







Annex 1: TOR of Teams involved in case investigation and contact tracing

Additional supporting team can be added for support if case numbers rise.

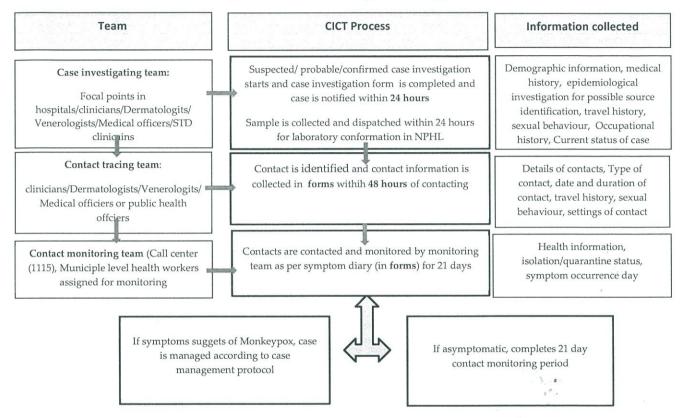
Team	Responsible member	Terms of Reference
Case investigating	Focal points / clinicians /	•Informs EDCD using Case Reporting Format
team	Dermatologist / Venerologists / Medical officers)	 Oversees suspected cases and performs through clinical examination and conducts interviews for case investigation. Tries to identify source of exposure and lists out contacts (with assistance) Fills the forms and notifies the suspected case as per national SOP for CICT for monkeypox Collects samples of suspected cases and hands over to focal collection point with collaboration with local lab personnel/ PPHL Lists out close contacts and hand out the line lists to contact tracing team
RRT/Contact tracing team	Public health officers/assigned RRT team from municipality	 Receives contact lists and finds/locates them Alerts contacts of their status and informs them about the possible exposure and diseases Informs self-care measures and orients on tracing and monitoring procedure Conducts interviews and counsel them to report any possible sign/symptoms that occur (mostly remotely) Provides hotline/ call center contact details for reporting Fills Form A and reports to the EDCD CICT secretariate and provincial focal point Presents the contact information to the managers
Contact monitoring team	(Call center (1115), Municipal level health workers assigned for monitoring)	Conducts daily follow up of the contact for development of possible sign/symptoms Ensures adherence to follow up protocol by contacts Provides daily report to the respective health authority
Data management team	Medical recorders and Stat. officer at district and local level, PHEOCs.	 •Manages all data of Case investigation, contact tracing and monitoring daily. •Checks quality of data and verifies information •Relays information to the local health authority and EDCD within 24 hours.



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Annex 2: Workflow for Case investigation and contact tracing for Monkeypox



Annex 3: IPC measures for case investigation and contact tracing team.

Recommended measures:

Location	PPE
During case investigation	Remote interview (by telephone or video conferencing) for case investigation won't require any PPE.
5	If required in-person interview, perform hand hygiene and wear PPE according to contact and droplet precautions (gloves, gown, mask [e.g.N95] and eye protection) as patients with rashes that have not healed may still have infectious virus.
	Outdoor in-person interview is preferred to avoid contact with suspected or fomites.
During contact tracing and	Contact tracing should be performed remotely as possible. If required for in-
contact monitoring	person visit, perform hand hygiene and wear PPE according to contact and
	droplet precautions (gloves, gown, mask [eg. surgical mask] and eye protection). Contact monitoring is done remotely over phone and will not require any PPE.

Health workers who conduct in-person interview wearing appropriate PPE do not need to be excluded from work if they are asymptomatic but should undergo active surveillance for symptoms for 21 days post-exposure; and be instructed not to work with vulnerable patients.





Health workers who have had an exposure to a person with confirmed MPX should undergo medical evaluation and consideration for possible interventions.

Annex 4: Close contact in air travel:

Any passenger or crew team member who reports physical contact with a symptomatic case without using PPE can be considered a high-risk contact.

If a probable or confirmed case is reported in a long-distance travel (e.g., lasting more than 4 hours), travelers seated in the same row, two rows in front and two rows behind the sick traveler as well as the cabin crew who served the case, can be considered contacts even if they had no physical contact with the case and were not wearing protective PPE such as face mask.

Annex 5: Flow-chart for sample transport for Monkeypox

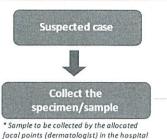


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Flow diagram for Sample Transportation

from identified Health Facility to NPHL | Readiness tolonkeyPox



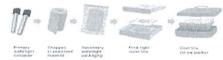
Ensure the collected samples in tube is properly labelled, seal with parafilm 'or' adhesive tapes to avoid leakage and keep at 2 to 8°C as soon as they are collected.

Proper labelling, triple layer packaging, and documentation to be send by the shipper with cold chain maintenance

Email EDCD and NPHL for sample tracking **

Ship the collected sample/specimen to PPHL/NPHL using the courier mechanism (identified by NPHL)*

- For shipping, wrap the collected samples with absorbent tissue/cotton and place into the secondary container (ziplock) and place it in the tertiary container
- Line the inside of specimen transport container with a frozen ice pack and transport at 2 to 8 °C.
- Send a copy of the laboratory form (*NOT inside the specimen transport container to avoid contamination with the samples) along with the samples
- Cold chain maintenance and packaging to be done by Health/Lab personnel at sample collection site.



- The collected sample should be stored at 2 to 8 \circ at the designated health facility until shipped to NPHL.
- The cost/charges for the sample transportation from identified Hospital to NPHL will be covered by courier mechanism arranged through courier vendor identified by NPHL.
 - *Please contact with focal point of courier (Mr Rajendra Bhatta, +977 9851081184) .
- **Email communication should be sent from the respective health institution, while shipping the sample. The
 communication channel should include EDCD (adhikaribhola2034@gmail.com , NPHL
 (alokbpkihs2013@gmail.com)

Contact focal point (NPHL): Mr. Lok Bandhu Chaudhary (9865090611) | EDCD: Mr Bhola Adhikari (9852678422)

	Identified Health Facilities and Focal Point	for Monkeypox readiness	
Hospital/Health Facility	Name of Focal person	Contact number	Email address
Mechi Hospital, Jhapa Bhadrapur	Dr Keshab Dhakal	9842055443	drkeshab@gmail.com
Koshi Hospital, Biratnagar	Dr C B Jha	9851166134	drcbjha@gmail.com
BPKIHS Dharan	Dr Dr Dhan Keshar Khadka	9842026086	dhankesharjung@gmail.com
Provincial Hospital, Janakpur	Dr Ram Gyan Yadav	9846102565	ramgderma@gmail.com
Narayani Hospital, Birgunj	Dr Atulesh Kumar Chaurasia	9845100923	atulesh bri@hotmail.com
okhara Academy of Health sciences, Pokhara	Dr Ananda Nepal	9846032688	anandnpl@gmail.com
Sharatpur Hospital, Bharatpur	Dr Shashi Hirachan	9845198255	shashi555hirachan@gmail.com
ir Hospital, Kathmandu	Dr Niraj parajuli	9841777800	drniralparajuli@gmail.com
TIDH, Teku, Kathmandu	Dr Shibendra Jha	9841567712	shivendrakjha@gmail.com
Patan Academy of Health Sciences, Patan	Dr Monique Kafle	9851203060	moniquekafle@pahs.edu.np
umbini Provincial Hospital	Dr Mani Lal Shrestha	9857025036	mani lalp@yahoo.com
Bheri Hospital, Nepalgunj	Dr Badri Chapagain	9851130245	badrichapagal@gmail.com
Provincial Hospital, Surkhet	Dr Susmita Pradhan	9849861203	sush_pradhan@hotmail.cokm
seti Hospital. Dhangadhi	Dr Dinesh Shiwakoti	9861115666	shiwakotidinesh@vahoo.com

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Annex 6: Monkeypox Case Reporting Form (CRF)

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								Reporti	ng offi	cer/ Co	ntact nu	mber:						
pa.	Dute of reporting	Name of Published	Age (recently/ year)	Gender_ (M/T/O)	Place of residence	Occupation	Programmy (Y/N)	Date of first symptoms orset	Dete of Fever orner	Dute of Rash ornert/ site of onset	Any other symptoms specify	Received small_ gas westite (Y/N)	international Travel in part 5-21 days before illness (Y/N) Specify	Recent separate to probable/ confirmed site (Y/N)	Date of Hospital tration (Y/M)	Date of sample collection (Skin lesion material for PCR)	lab report finding for sample collected	Health status (Recovered) healthy, not recovered, LAVIA, Referred, Death, unknown)

Suspected Case:

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OR

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AND

For which the following common causes of acute rash do not fully explain the clinical picture:

Hand Foot and Mouth Diseases, varicella zoster, herpes zoster, measles, herpes simplex, bacterial skin infections, disseminated gonococcus infection, primary or secondary syphilis, chancroid, lymphogranuloma venereum, granuloma inguinale, molluscum contagiosum, allergic reaction (e.g., to plants); any other locally relevant common causes of papular or vesicular rash.

N.B. It is not necessary to obtain negative laboratory results for listed common causes of rash illness in order to classify a case as suspected. Further, if suspicion of monkeypox infection is high due to either history and/or clinical presentation or possible exposure to a case, the identification of an alternate pathogen which causes rash illness should not preclude testing for MPXV, as co-infections have been identified









CASE INVESTIGATION FORM (CIF)

The Case investigation form (CIF) is designed to collect data obtained from persons with suspected, probable, or confirmed monkeypox infection. Data may be collected prospectively or retrospectively. This form comprises modules for both cases and for subsequent investigation of contacts.

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FOR CASES:

Module 1: Case identification

Module 2: Epidemiological investigation

Module 3: Laboratory investigation and case outcome

Module 4: Forward Contact Tracing and Contact follow-up

FOR CONTACTS

Form A: Contact minimal reporting form – for contacts of suspected, probable and confirmed monkeypox cases

Form B: Symptom diary for contacts of suspected, probable and confirmed monkeypox cases





MODULE 1. CASE IDENTIFICA	TION
Unique Case ID:	
Cluster number (if applicable):	
Case origin: ☐ In-country ☐ P	POE
Current status: □Home □Treatment Fa	acility Institutional Isolation Quarantine
1.Data collector information	
Name of data collector	
Data collector role	
Data collector facility	
Data collector telephone number	
Data collector email	
Form completion date	
Date of notification	
CASE CLASSIFICATION	
□Confirmed	□Probable □Suspected
1a. CASE IDENTIFIER INFOR	MATION
	P2
	Family name
Date of birth: [Y][Y][Y]/[M] If date of birth is unknown, record:	
Age [][] years OR [][] months OR [][days
Sex at birth: □Male □Female □Other(specif	ar varification expression at the content of the co
If sex is other, specify:	(y) Lonkiowii
Gender: ☐ Man ☐ Woman ☐ Non-binary ☐	Other(specify)
If gender is other, specify:	
Individual's national identification number (
	rt Number
Country of residence	
Phone numberAlternate phon	
Email	26 Suprember 1985 St. Anniewsky, Branch (1995 St. 1995 St
Place of stayMunicip	pality/ District/ward/Tole/Landmark:
Occupation of the case:	
Education:	
Healthcare worker?	
☐Yes ☐No ☐Unknown	
If Healthcare worker Yes; please complete the s	specific section (X).





व विश्व विश्

Did the patient travel outside of the country in t	the past 21 days? □Yes □No □Unk
The following questions should only be asked if pat	ient reports "Yes"
1.	1.
Country/ies of travel 2.	Travel Subnational 2.
3.	Region/City 3.
Date of entry in country	
1	[2][0][Y][Y]/[M][M]/[D][D]
1	[2][0][Y][Y]/[M][M]/[D][D]
2	
3	[2][0][Y][Y]/[M][M]/[D][D]
3	
	[2][0][Y][Y]/[M][M]/[D][D]
Contact with animals (if travel to (select all that apply)	to Central or West Africa)
☐Household pets excluding	
rodents	
□Rodent pets	
☐Wild animals excluding rodent	
□Wild rodents	
□Other (specify)	

1c. MEDICAL HISTOR	\mathbf{Y} (Unk = Unknown)	在达到。这类的对象。	
Concurrent		ъ о	
Sexually	∟ Y es	Pregnancy?	☐Yes, Pregnancy, trimester is unknown





Transmitted	□No	STATES AND STATES AND STATES AND STATES	☐Yes, Pregnancy, 1st trimester, the 1st trim is
Infections (STI)	□Unk		from week 1 to the end of week
	□Yes		12
Chlamydia	□No		☐Yes, Pregnancy, 2nd trimester, the 2nd trim is
	□Unk		from week 13 to the end of week 26
	□Yes		☐Yes, Pregnancy, 3rd trimester, the 3rd trim is
Gonorrhea	□No		from week 27 to the end of the pregnancy
	□Unk		□Post-partum (<6 weeks)
	□Yes		□No
Genital herpes	□No		
	□Unk		□NA
Lymphogranulo	□Yes		□Unk
ma venereum	□No		
(LGV)	□Unk		
Mygorlesses	□Yes		
Mycoplasma genitalium	□No		-
gemtanam	□Unk		
	□Yes		
Syphilis	□No		
	□Unk		
Twichomonos	□Yes		
Trichomonas vaginalis	□No		
vaginans	□Unk		
			☐Yes, due to disease
	□Yes		☐Yes, due to medication
Genital warts		Immunosuppressed	□Yes, reason unknown □No
	□Unk		
	□Yes		LOIK
Other STIs	□No	If Immunosuppressed Vo	es, specify the cause of the immunosuppressed
		status	s, specify the cause of the minutiosuppressed
	Lom		
If Other STI			
Yes, specify:			
		□Tecovirimat	
		□Brincidofovir	
		□Cidofovir	
What antiviral tr	eatment is the case	□Other (specify)	
receiving for mor	ikeypox?		
			viral treatment not known
		□No antiviral treatment	
		□Unknown	
HIV status	□Positive	HIV status assessment	□Self-reported
	□Negative		□Laboratory-confirmed





के स्टूबर्स स्टूबर स्टू

Date of first clinical diagnosis [_2_] Does the case present/has the case p YesNoUnknown If yes, Date symptoms onset (date of first/ Date onset of rash [_2_][_0_][_Y_]	/earliest symptor	y symptoms related to monke m) [2][0][Y][Y]/[V]/[D][D] □Not applicabl	eypox? _M/_D_ _D_ e	
Does the case present/has the case p Yes No Unknown If yes, Date symptoms onset (date of first/ Date onset of rash [2][0][Y] 1e. SIGNS AND SYMPTOMS kin/mucosal lesions excluding oral or nogenital area	resented with any /earliest sympton IF CASE IS/HA Yes No Unk Yes No Unk	y symptoms related to monke m) [2][0][Y][Y]/[V]/[D][D]		
Does the case present/has the case p Yes No Unknown If yes, Date symptoms onset (date of first/ Date onset of rash [2][0][Y] 1e. SIGNS AND SYMPTOMS kin/mucosal lesions excluding oral or nogenital area	/earliest sympton Y / M M IF CASE IS/HA Yes No Unk Yes No Unk	y symptoms related to monke m) [2][0][Y][Y]/[V]/[D][D]		
Does the case present/has the case p Yes No Unknown If yes, Date symptoms onset (date of first Date onset of rash [2][0][Y] 1e. SIGNS AND SYMPTOMS kin/mucosal lesions excluding oral or nogenital area	resented with any /earliest sympton IF CASE IS/HA Yes Unk Yes No Unk	y symptoms related to monke m) [2][0][Y][Y]/[V]/[D][D] □Not applicabl S BEEN SYMPTOMATIC Sore throat		
Does the case present/has the case p Yes No Unknown If yes, Date symptoms onset (date of first Date onset of rash [2][0][Y] 1e. SIGNS AND SYMPTOMS kin/mucosal lesions excluding oral or nogenital area	/earliest sympton IF CASE IS/HA Yes Unk Yes No	y symptoms related to monke m) [2][0][Y][Y]/[V]/[D][D] □Not applicabl S BEEN SYMPTOMATIC Sore throat		
Does the case present/has the case p Yes No Unknown If yes, Date symptoms onset (date of first Date onset of rash [2][0][Y] 1e. SIGNS AND SYMPTOMS kin/mucosal lesions excluding oral or nogenital area	/earliest sympton IF CASE IS/HA Yes Unk Yes No	y symptoms related to monke m) [2][0][Y][Y]/[V]/[D][D] □Not applicabl S BEEN SYMPTOMATIC Sore throat		
Does the case present/has the case p Yes No Unknown If yes, Date symptoms onset (date of first Date onset of rash [2][0][Y] 1e. SIGNS AND SYMPTOMS kin/mucosal lesions excluding oral or nogenital area	/earliest sympton Y / M M IF CASE IS/HA Yes No Unk	y symptoms related to monke m) [2][0][Y][Y]/[V]/[D][D] □Not applicabl S BEEN SYMPTOMATIC Sore throat		
Does the case present/has the case p Yes No Unknown If yes, Date symptoms onset (date of first/ Date onset of rash [2][0][Y] 1e. SIGNS AND SYMPTOMS kin/mucosal lesions excluding oral or	/earliest sympton IF CASE IS/HA Yes No Unk	y symptoms related to monke m) [2][0][Y][Y]/[V]/[D][D] □Not applicabl S BEEN SYMPTOMATIC		
Does the case present/has the case p Yes No Unknown If yes, Date symptoms onset (date of first/ Date onset of rash [2][0][Y] 1e. SIGNS AND SYMPTOMS kin/mucosal lesions excluding oral or	/earliest symptor Y / M M IF CASE IS/HA	y symptoms related to monke m) [2][0][Y][Y]/[V]/[D][D] □Not applicabl S BEEN SYMPTOMATIC		
Does the case present/has the case p Yes No Unknown If yes, Date symptoms onset (date of first/ Date onset of rash [2][0][Y] 1e. SIGNS AND SYMPTOMS kin/mucosal lesions excluding oral or	/earliest symptor Y / M M IF CASE IS/HA	y symptoms related to monke m) [2][0][Y][Y]/[V]/[D][D] □Not applicabl S BEEN SYMPTOMATIC		
Does the case present/has the case p Yes No Unknown If yes, Date symptoms onset (date of first.) Date onset of rash [2][0][Y][1e. SIGNS AND SYMPTOMS kin/mucosal lesions	/earliest sympton	y symptoms related to monke m) [2][0][Y][Y]/[V]/[D][D] □Not applicabl S BEEN SYMPTOMATIC	eypox?	
Does the case present/has the case p Yes No Unknown If yes, Date symptoms onset (date of first/ Date onset of rash [2][0][Y] 1e. SIGNS AND SYMPTOMS	resented with any /earliest symptor [_Y_]/[_M_][_M_] IF CASE IS/HA	y symptoms related to monke m) [2][0][Y][Y]/[V]/[D][D] □Not applicabl	eypox? _ _ _ _ _ _ _ _	
Does the case present/has the case p □Yes □No □Unknown If yes, Date symptoms onset (date of first/ Date onset of rash [2][0][Y][/earliest symptor	y symptoms related to monke m) [2][0][Y][Y]/[V]/[D][D] □Not applicabl	eypox? _M/_D_ _D_ e	
Does the case present/has the case p □Yes □No □Unknown If yes, Date symptoms onset (date of first/	resented with any	y symptoms related to monke m) [2][0][Y][Y]/[V	eypox?	
Does the case present/has the case p □Yes □No □Unknown If yes, Date symptoms onset (date of first/	resented with any	y symptoms related to monke m) [2][0][Y][Y]/[V	eypox?	
Does the case present/has the case p □Yes □No □Unknown If yes,	resented with an	y symptoms related to monke	eypox?	
Does the case present/has the case p □Yes □No □Unknown				
Does the case present/has the case p				
Date of first clinical diagnosis [2]	[0][Y][Y]/		nknown	
A STATE OF THE PARTY OF THE PAR		The state of the s	And the second s	
d. DATE OF ONSET (first availab	le data at present	ation/admission)		1970
vaccination, please report only the an approximate date)	e year or			
(If the case does not recall the exc			Y_/(_M(_M_/(_D(_D)	
dose of smallpox vaccine?				
Date when the case received the	latest			
		□Unk		
,		□No		
(select all that apply)		☐Yes, but scar prese	nt	
Has the case received smallpox	vaccine?	☐Yes, but scar not pr	resent	
¥		☐Yes, previous vacc	ination unrelated to current event	
	□No	□Unk		
Most recent CD4 counts		□Unk		
				na facilitation de la facilita
If HIV positive, most recent			—	
EL LOS CONSTRUCTORIOS EL EL EXPUBITION COM PORTO ESTA POR APONDO ESTA POR EN PROPERTI A CONTRA POR EN PARTO DE			□Unk	





Line 2.25 miles de Milane esta biológico fore de la caração de detendo esta de la colocida e a la colocida de Li	□No	t dieste uiteure wicht zu werdt gewas pergebbei piele enzembere ette o	□No	and the second of the second o
	□Unk		□Unk	
	□Yes		□Yes	
Asthenia (profound	□No	Vomiting/nausea	\square No	7
weakness)	□Unk		□Unk	
Muscle pain (myalgia)	□Yes □No	Cough/respiratory	□Yes	
musele pain (myangan)	□Unk	symptoms	□No	
	Lom		□Unk	
Back pain	□Yes □No □Unk	Localized lymphadenopathy	□Yes □No □Unk	
Fatigue	□Yes □No □Unk	Generalized lymphadenopathy	□Yes □No □Unk	0
Other symptoms	□Yes □No □Unk	Diarrhea	□Yes □No □Unk	
If Other symptoms Yes, specify:				







2a. EXPOSURE TO ANOTHER CASE (up to 3 weeks prior to onset of symptoms or diagnosis) (Unk = Unknown)	ns or diagnosis) (Unk = Unknown)	
Dates of 3 weeks: from [2][0][][][][][][][][][][][][][]		
Patient had contact with anyone presenting similar illness or symptoms; or with a known probable or confirmed case	vith a known probable or confirmed	case
□Yes □No □Unk		
The following questions should only be asked if patient reports "Yes" to the above		
		□ <5 mins
		□5<15 mins
the	What was the total duration of	□15 mins <1h
contact occur?	encounters?	□1<4h □ 4h+
		□Household
Date of first contact (within the last three weeks)		□Workplace
		□School/nursery
To the		☐ Healthcare setting (including laboratory
Date of most recent contact	Where did the exposure occur?	exposure)
(within the last three weeks)	(select all that apply)	☐Night club/private party/sauna with sexual contact
		☐Bar/restaurant or other small event where
		there was no sexual contact
		☐Large event with no sexual contact (e.g., festival or sports event)

MODULE 2. EPIDEMIOLOGICAL INVESTIGATION

प्रकार महार विश्वासी के कारमाण्डी

Clarge event with Close contact Clubrane and address of exposure Close contact Close
--

If other, specify:			Accepted to the second
Number of sexual partners in the past 21 days	ers in the past 21 days		
□0 □1 □2-5	□6-10 □>10 □Prefer not to say		
The rest of the questions s	The rest of the questions should only be asked if the case reports one or more sexual partners.	more sexual partners.	
Type of sex practiced (select all that apply)	☐Anal penetrative ☐Anal receptive ☐Oral ☐Vaginal ☐Other (i.e sex toys, etc.) ☐Prefer not to say ☐NA	Protected sex No, never (using condom or dental dam) Unknown	ays 1es x n
Type of sex partner (select all that apply)	□Regular/main sex partner/s (i.e. a husband, or wife, or partner, or casual) □Occasional known sex partner/s □Occasional anonymous sex partner/s (no contact information is available) □Other (specify)	If Sex partner is Occasional known or anonymous, how did the case meet them? (select all that apply)	☐ Grindr ☐ Scruff ☐ Other networking app ☐ Bar/night club/commercial parties ☐ Public venue (dark room, sauna, sex club) ☐ Private sex parties ☐ Other, specify:
2d. OTHER EXPOSURE	2d. OTHER EXPOSURES (up to 3 weeks prior to onset of symptoms or diagnosis) $(Unk = Unknown)$	r diagnosis) (Unk = Unknown)	
Case contact with animals:	als:	□Yes □No □ If yes, specify location _	□Unk

भारकार स्ट्राहरू भारकार सेवा विभाग

	(Select all that apply) □Household pets excluding rodents	
(1)	☐Rodent pets (such as Guinea pigs, prairie dogs, gerbils, mice, rats, squirrels)	
	☐Wild animals excluding rodents (such as monkeys, live exposure or cadavers, wild game/bushmeat)	
े त्या जन्मंख्या वर्ग	□Wild or urban rodents (such as squirrels, rats, dormice, live exposure, farmed or as wild game or bushmeat) □Other (specify)	
	Patient contact with bush meat in country of diagnosis, independent of travel □Yes □No □Unk	
	If yes, specify location	
	2d. Occupational exposure in healthcare setting (up to 3 weeks prior to onset of symptoms or diagnosis) (Unk = Unkn) If case is not a Healthcare worker, please skip to next Section	to onset of symptoms or diagnosis) (Unk = Unkn)
	What kind of healthcare worker (HCW) is the Case?	Specify place of work

	Mate
How many times was the case in contact with a monkeypox case?	 □ Once □ Multiple time □ NA
Date(s) of contact with the case	[Y][X][X][W][M][M][D][D]
	□Yes, always
During possible exposure was personal	[] yes, sometimes
protective equipment (PPE) used	
	Unknown
	□Gloves
	□Gown
6 7. July 1 1 37.	□Medical mask
II yes, what FFE items were worn;	□Respirator (e.g N95, FFP2, etc)
	□Face shield
	□Goggles
	□Yes
Was there a breach of PPE whilst working?	°N —
or during removal of PPE?	□Unk

करकार जिला क्यांग होता विभाग कातमावदी 25

2e. MOST LIKELY MODE O	2e, MOST LIKELY MODE OF TRANSMISSION, based on the previously reported information	U(
(to be determined by investiga	(to be determined by investigator based on the previously reported exposure information)	
□Direct contact transmission	□Direct contact transmission from person to person (excluding mother-to-child, healthcare-associated or sexual transmission)	associated or sexual transmission)
□Sexual transmission		
☐Animal to human transmission	sion	
☐Healthcare-associated (hea.	☐Healthcare-associated (healthcare setting or facility or when delivering health care)	
☐Transmission in a laborator	Transmission in a laboratory due to occupational exposure	
☐ Transmission from mother	Transmission from mother to child during pregnancy or at birth	
□Contact with contaminated	□Contact with contaminated material (e.g bedding, clothing, objects)	
□Transfusion recipient		
□Other transmission, specify		
Unknown		
MODULE 3. LABORATORY 3a. DIAGNOSTIC/PATHOG	MODULE 3. LABORATORY INFORMATION AND CASE OUTCOME 3a. DIAGNOSTIC/PATHOGEN TESTING: Please select all positive specimens used for diagnosis of monkeypox	diagnosis of monkeypox
Laboratory identification		
number		
Date of sampling	Specimen type (select all that apply)	Test performed
ल सरकार जनसंख्या पन्न सेला विभा काठमाण्डा	☐Skin lesion material (including swabs of lesion surface, and/or exudate, roofs from	☐Monkeypox PCR ☐Orthopoxvirus PCR
Herle	more than one lesion)	□Sequencing
_ D D /_ M M/202_ Y	☐Lesion crust☐Serum	□ Serology
	☐Genital swab	
5	□Oropharyngeal swab	
Ş	26	
\cdot		

□Urine □Semen □Rectal swab □Other, Specify:	the ciff:
Genomic characterization undertaken?	□No □Unknown □Congo Basin Clade a public database
3b. HOSPITALISATION AND INTENSIVE CARE (ICU)	
Hospitalization? □Yes, for isolation purposes □Yes, due to clinical needs If yes	clinical needs
Date of hospital admission [2][0][Y][Y][Y]/[M][M]/[D][D] Date of hospital discharge [2][0][Y][Y]/[M][M]/[D][D]	VI/LDJLDJ DN/A AJ/LDJLDJ DIn hospital at time of form completion DN/A
ICU or high dependency unit admission? □Yes □No If yes	□Yes □No □Unknown
Date of ICU discharge [2][0][Y][Y]/[M][M]/[D][D] Date of ICU discharge [2][0][Y][Y]/[M][M]/[D][D]	[D][D] □N/A [D][D] □In ICU at time of form completion □N/A
3c. OUTCOME	
Outcome: □No outcome yet □Deceased □Unknown (lost-to-follow-up) □Recovered Outcome date: [2][0][X][X]/[M][M]/[D][D]□Unknown	to-follow-up)
	27







100)



MODULE 4: FORWARD CONTACT TRACING		00.00
4a. FORWARD TRACING $(Unk = Unknown)$		
Has the case had any contact (face to face, physical or sexual) with one or more persons in the period between onset of symptoms or diagnosis and all	the period between on	set of symptoms or diagnosis and all
vesicle scabs falling off?		
□Yes □No □Unk		
The following questions should only be asked if patient reports "Yes"		
		□Household
		□Workplace
		□School/nursery
How many contacts has the case had since the		☐Healthcare (including laboratory exposure)
diagnosis?	Where did the case	□Night club/private party/sauna with sexual contact
How many of the	have contact (face to face, physical or	☐Bar/restaurant or other small event where there was no sexual
reported contacts are unidentified?	sexual): (select all that apply)	contact
(the case does not have their contact details or knows how to reach		(e.g., festival or sports event)
them.)		☐Large event with sexual contact
		□Unknown
		□Other, specify:
Please list all the contacts below		

¥01





Surranne Name (Contact details (Thome address) frome address) There are number, email address, frome address) The surranne of the surranne address and address are address and address a	77			
Name Name 30	,			
				Contact details (Phone number, email address, home address)
	Xe.		on an Some will be an accommon	
	D.	2.		
		3.		
	७, फी	The state of the s		
	OHIUSI	रकार संख्या सन्दर्भ मा विकास		
		6.		
		7.		
		80		
	4	6		
	8	10.		
	CM	्राक्ष्म सम्बद्धां के स्वर्धा के स	30	

	For each contact that is reached, please con	For each contact that is reached, please complete the Contact initial and follow up reporting forms (Form A and Form B)	ting forms (Form A and Form B)	
				enast sinciliason 25%
				January 1947 - 1945 1844 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 -
W.				
THE STATE OF THE S				T. 1000 11 77 17 18 18 10 10 10 10 10 10 10 10 10 10 10 10 10
्राह्म स्था स्था स्था स्था				State of the state
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				earressor \$210 bear
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BIN		31		eronia irila i
Tellow .				

FORM A: CONTACT INITIAL REPORTING FORM—for contacts of confirmed cases, who are not symptomatic. Symptomatic contacts meeting the suspected or probable case definition need to be administered the full CIF. Note: Contact ID numbers should be issued at the time of completion of Form X. DATA COLLECTOR INFORMATION Confirmed Case ID/Cluster number (if applicable): Form completion date (dd/mm/yyyy) Data collector telephone number Data collector institution Name of data collector Data collector email Contact ID Number (C...): Name of confirmed case

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	3. CONTACT DEMOGRAPHICS	
	First name Family name	
	Date of birth: [Y][Y][Y][Y][M][M][D][D]	
	If date of birth is unknown, record:	
	Age [][][] years OR [][] months OR [][] days	
	Sex at birth: □Male □Female □Other(specify) □Unknown	
	If sex is other, specify:	
	Gender: ☐ Man ☐Woman ☐Non-binary ☐Other(specify)	
	If gender is other, specify:	
	National social number/identifier (if applicable):	
	Country of residence	
	Telephone number	
	Email	
	Address	
	Sexual orientation	
	□MSM (men who have sex with men) □Homosexual □Heterosexual □Bisexual □Other □Unknown	
MA.	If other, specify:	
	TEATH CATE WOLKET:	
	□Yes □No □Unknown	
	Occupation of the case (including specific type of HCW):	
	4. DETAILS OF CONTACT	
School and a		



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Type of contact with the case

Relationship to the case

	Face-to-face contact less one meter distance but no physical contact Physical skin to skin contact but no sexual intercourse Sexual intercourse contact Contact with specimens or body fluids but no direct contact with a case Healthcare worker in contact with a case Unknown Other (specify)	Cumulative duration of the contact <5 minutes 5<15 minutes 15 minutes <1 hour 1<4hours= 4h+ UNK= Unknown Details on the setting of the contact: Name:	
			34
	 □ Spouse/partner □ Household member □ Non-household relative □ Friend □ Sexual partner □ Colleague □ Healthcare exposure □ Other (specify) 	Occurrence of the contact Once Multiple times Retting of the contact Household Workplace School/nursery Healthcare (including laboratory exposure) Night club/private party/sauna with sexual contact Bar/restaurant/ or other small event where there was no sexual contact Large event with no sexual contact (e.g., festival or sports event) Large event with sexual contact Cher (specify)	
vie		A de la constant de l	5
	New !	स्वास्थ्य सेवा प्राप्त	E.

□ Unknown	
Date of first contact	Date of last contact
(In the period between the first symptom onset	(In the period between the first symptom onset or diagnosis to today or to last
or diagnosis to today or to last vesicle scabs falling off)	vesicle scabs falling off)

Form B: Symptom diary for contacts of suspected, probable and confirmed monkeypox cases

If symptoms Yes, list	Tomon ab or contact - Symptoms	525		
1 3 4 4 5 6 6 7 7	Day Number	Symptoms Yes/No/Unknown	If symptoms Yes, list	Is the contact a suspected case? Yes/No/Unknown
2 & 4 & 5 & 6	1			
5 5 7 7 9 8 8	2			
6	8			
5 6 8 8	4			
8	w			
8	9			
8	7			
6	∞			
	6			





